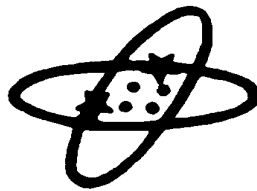


CHAPTER 32



ELECTRONICS TECHNICIAN (ET)

NAVPERS 18068-32I

CH-58

Updated: April 2014

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NAVY ENLISTED OCCUPATIONAL STANDARD
FOR
ELECTRONICS TECHNICIAN (COMMUNICATION) (ETR)



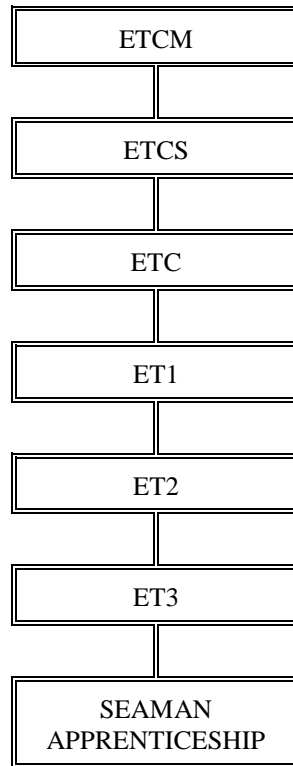
SCOPE OF RATING

Electronics Technicians (Communication) (ETR) operate and maintain electronic equipment used for detection, tracking, recognition and identification, communications, communication security, and Electronic Warfare (EW); operate and maintain General Purpose Test Equipment (GPTE), personal computers, and auxiliary equipment; operate, monitor, and control Information Systems (IS) in support of the world-wide telecommunications network; perform assigned mission organizational level maintenance and repair of Command, Control, Communications, Computers, and Intelligence (C4I) Systems; and stand watch on related equipment.

This Occupational Standard is to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) as Chapter 32.

GENERAL INFORMATION

CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1.

For rating entry requirements, refer to MILPERSMAN 1306-618.

SAFETY

The observance of Operational Risk Management (ORM) and proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.

Job Title**Communications Operator****Job Code****001215****Job Family**

Office and Administrative Support

NOC

TBD

Short Title (30 Characters)

COMMUNICATION OPERATOR

Short Title (10 Characters)

ES COM OP

Pay Plan

Enlisted

Career Field

ETR (COMM)

Other Relationships and Rules

14RO, 14TO

Job Description

Communications Operators operate Electronic Warfare (EW) equipment used for detection, tracking, recognition and identification of signals of interest; generate, transmit, and account for naval messages; route communications to and from external sources; operate General Purpose Test Equipment (GPTE), personal computers, and auxiliary equipment; operate, monitor, and control Information Systems (IS) in support of the world-wide telecommunications network; and stand watch on related equipment.

DoD Relationship**O*NET Relationship****Group Title**

Radio/Radar, General

DoD Code

110000

Occupation Title

Computer Operators

SOC Code

43-9011.00

Job Family

Office and Administrative Support

Skills*Operation and Control**Operation Monitoring**Equipment Maintenance**Systems Evaluation**Management of Material Resources**Critical Thinking**Reading Comprehension**Judgment and Decision Making**Repairing**Troubleshooting***Abilities***Finger Dexterity**Near Vision**Arm-Hand Steadiness**Multi-limb Coordination**Deductive Reasoning**Information Ordering**Written Comprehension**Inductive Reasoning**Problem Sensitivity**Selective Attention***ADMINISTRATION****Paygrade****Task Type****Task Statements**

E4

CORE

Control restricted area access

E4

CORE

Destroy classified materials

E4

CORE

Destroy cryptographic keying materials

E4

CORE

Develop Electronic Warfare Support Measures (ES) search plans

E4

CORE

Inventory cryptographic keying materials

E4

CORE

Inventory Communications Security (COMSEC) equipment

E4

CORE

Inventory Local Area Network (LAN) hardware

E4

CORE

Inventory Top Secret (TS) / Sensitive Compartmented Information (SCI) materials

E4

CORE

Load cryptographic keying materials

E4

CORE

Maintain General Message Files (GMF)

E5

CORE

Maintain Top Secret (TS) / Sensitive Compartmented Information (SCI) inventories

E4

CORE

Receive cryptographic keying materials

E4

CORE

Store Communications Security (COMSEC) material

E4

CORE

Transport classified materials

E4

NON-CORE

Update classified materials

COMMUNICATIONS SYSTEM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct deployable antenna system communications
E4	CORE	Conduct emergency antenna system operations
E4	CORE	Conduct Extremely High Frequency (EHF) system operations
E4	CORE	Conduct floating wire antenna system communications
E4	CORE	Conduct in-port communications
E4	CORE	Conduct Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) system communications
E4	CORE	Conduct multi-purpose antenna system operations
E4	CORE	Conduct periscope and imaging system operations
E4	CORE	Conduct Ultra High Frequency (UHF) system operations
E4	CORE	Conduct Very High Frequency (VHF) system operations
E4	CORE	Conduct Very Low Frequency (VLF) system operations
E4	CORE	Execute Disaster Recovery Plan (DRP)
E4	CORE	Execute Emergency Action Plan (EAP)
E4	CORE	Operate antenna control systems
E4	NON-CORE	Operate Government Off-The-Shelf (GOTS) software

ELECTRONIC WARFARE SYSTEM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct Electronic Warfare Support Measures (ES) system operations
E4	CORE	Conduct fixed radar operations
E4	CORE	Conduct Identification, Friend or Foe (IFF) operations
E4	CORE	Conduct portable radar system operations
E4	CORE	Conduct Radio Direction Finding (RDF) system operations

EQUIPMENT MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Conduct sound isolation surveys
E5	NON-CORE	Correct sound isolation deficiencies
E4	CORE	Maintain antenna systems
E4	CORE	Maintain Electronic Warfare Support Measures (ES) systems
E4	CORE	Maintain Extremely High Frequency (EHF) systems
E4	CORE	Maintain Identification, Friend or Foe (IFF) systems
E4	CORE	Maintain Information System (IS) components
E4	CORE	Maintain Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) systems
E4	CORE	Maintain periscope and imaging systems
E4	CORE	Maintain Radio Direction Finding (RDF) systems
E4	CORE	Maintain Super High Frequency (SHF) systems
E4	CORE	Maintain Ultra High Frequency (UHF) systems
E4	CORE	Maintain Very High Frequency (VHF) systems
E4	CORE	Maintain Very Low Frequency (VLF) systems
E5	CORE	Repair Super High Frequency (SHF) systems
E5	CORE	Troubleshoot Super High Frequency (SHF) systems

INFORMATION SYSTEM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Establish Information System (IS) off-hull connectivity
E4	CORE	Operate Information Systems (IS)

Job Title**Communications Manager****Job Code****001220****Job Family**

Computer and Mathematical

NOC

TBD

Short Title (30 Characters)

COMMUNICATIONS MANAGER

Short Title (10 Characters)

ES COM MGR

Pay Plan

Enlisted

Career Field

ETR (COMM)

Other Relationships and Rules

Not applicable, based upon the NEC assigned to the job (if any).

Job Description

Communications Managers assess communication division training, audit communication division records, and coordinate communication division maintenance; account for all transmitted and received message traffic; coordinate communication division equipment modifications; review naval correspondence; develop communications system employment plans and shipboard instructions; prepare communications emergency destruction plans; perform Electronic Key Management System (EKMS) custodian operations; verify communication plans; monitor maintenance quality control; prepare weekly preventive maintenance schedules; review completed maintenance data forms; supervise the repair of electronic systems and subsystems; use accounting procedures to maintain control of inventories and work flow; estimate time and support required for repair of equipment; provide technical and supervisory liaison between work centers; implement and administer maintenance and repair programs; and prepare quarterly preventive maintenance schedules.

DoD Relationship**Group Title**

Radio/Radar, General

DoD Code

110000

O*NET Relationship**Occupation Title**

Telecommunications Engineering Specialist

SOC Code

15-1143.00

Job Family

Computer and Mathematical

Skills*Management of Material Resources**Critical Thinking**Reading Comprehension**Equipment Maintenance**Judgment and Decision Making**Management of Personnel Resources**Operation and Control**Systems Evaluation**Learning Strategies**Operation Monitoring***Abilities***Deductive Reasoning**Information Ordering**Arm-Hand Steadiness**Written Comprehension**Near Vision**Oral Expression**Problem Sensitivity**Finger Dexterity**Inductive Reasoning**Multi-limb Coordination***ADMINISTRATION****Paygrade****Task Type****Task Statements**

E4	CORE	Control restricted area access
E6	CORE	Coordinate sail maintenance
E4	CORE	Destroy classified materials
E4	CORE	Destroy cryptographic keying materials
E7	CORE	Develop Emergency Action Plans (EAP)
E7	CORE	Develop Emergency Destruction Plans (EDP)
E4	CORE	Inventory cryptographic keying materials
E4	CORE	Inventory Communications Security (COMSEC) equipment
E4	CORE	Inventory Top Secret (TS) / Sensitive Compartmented Information (SCI) materials
E4	CORE	Load cryptographic keying materials
E5	CORE	Maintain Top Secret (TS) / Sensitive Compartmented Information (SCI) inventories
E7	CORE	Manage Electronic Key Management System (EKMS) accounts
E4	CORE	Receive cryptographic keying materials
E4	CORE	Store Communications Security (COMSEC) material
E7	CORE	Supervise Electronic Key Management System (EKMS) users

E6	CORE	Supervise mast and antenna maintenance
E4	CORE	Transport classified materials
E4	NON-CORE	Update classified materials

COMMUNICATIONS SYSTEM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Develop communication employment plans
E4	CORE	Execute Disaster Recovery Plan (DRP)
E4	CORE	Execute Emergency Action Plan (EAP)

INFORMATION SYSTEM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Develop Information System (IS) policies
E6	CORE	Supervise Information System (IS) maintenance
E6	CORE	Supervise Information System (IS) modifications

Job Title**Communications Technician****Job Code****001227****Job Family**

Installation, Maintenance, and Repair

NOC

TBD

Short Title (30 Characters)

COMMUNICATION TECHNICIAN

Short Title (10 Characters)

ES COM TEC

Pay Plan

Enlisted

Career Field

ETR (COMM)

Other Relationships and Rules

14BH, 14CM, 14EM, 14HH, 14TM, 2781

Job Description

Communications Technicians perform organizational level maintenance on electronic warfare equipment, world wide telecommunications equipment, General Purpose Test Equipment(GPTE), Communications Technicians perform organizational level maintenance on Electronic Warfare Support (ES) equipment, world-wide telecommunications equipment, General Purpose Test Equipment (GPTE), personal computers, and auxiliary support equipment; interpret schematics and block diagrams; apply general working knowledge of electricity and electronics to repair electronics and electronic cables and connectors; localize malfunctions and repairs; replace faulty parts or subassemblies; align, adjust, calibrate, and perform corrective maintenance on communications equipment; develop communication division training; supervise communication division maintenance; collect communication equipment performance data; develop communication divisional watch bills; and maintain communication division records.

DoD Relationship**Group Title**

Radio/Radar, General

DoD Code

110000

O*NET Relationship**Occupation Title**

Electrical and Electronics Installers and Repairers, Transportation Equipment

SOC Code

49-2093.00

Job Family

Installation, Maintenance, and Repair

Skills*Operation and Control**Equipment Maintenance**Repairing**Operation Monitoring**Systems Evaluation**Management of Material Resources**Troubleshooting**Critical Thinking**Reading Comprehension**Installation***Abilities***Information Ordering**Deductive Reasoning**Finger Dexterity**Near Vision**Multi-limb Coordination**Arm-Hand Steadiness**Written Comprehension**Selective Attention**Inductive Reasoning**Problem Sensitivity***ADMINISTRATION****Paygrade****Task Type****Task Statements**

E4

CORE

Control restricted area access

E6

CORE

Coordinate sail maintenance

E4

CORE

Destroy classified materials

E4

CORE

Destroy cryptographic keying materials

E4

CORE

Develop Electronic Warfare Support Measures (ES) search plans

E4

CORE

Inventory cryptographic keying materials

E4

CORE

Inventory Communications Security (COMSEC) equipment

E4

CORE

Inventory Local Area Network (LAN) hardware

E4

CORE

Inventory Top Secret (TS) / Sensitive Compartmented Information (SCI) materials

E4

CORE

Load cryptographic keying materials

E4

CORE

Receive cryptographic keying materials

E4

CORE

Store Communications Security (COMSEC) material

E4

CORE

Transport classified materials

E4

NON-CORE

Update classified materials

COMMUNICATIONS SYSTEM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct deployable antenna system communications
E4	CORE	Conduct emergency antenna system operations
E4	CORE	Conduct Extremely High Frequency (EHF) system operations
E4	CORE	Conduct floating wire antenna system communications
E4	CORE	Conduct in-port communications
E4	CORE	Conduct Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) system communications
E4	CORE	Conduct multi-purpose antenna system operations
E4	CORE	Conduct periscope and imaging system operations
E4	CORE	Conduct Super High Frequency (SHF) system operations
E4	CORE	Conduct Ultra High Frequency (UHF) system operations
E4	CORE	Conduct Very High Frequency (VHF) system operations
E4	CORE	Conduct Very Low Frequency (VLF) system operations
E4	CORE	Develop communication employment plans
E4	CORE	Execute Disaster Recovery Plan (DRP)
E4	CORE	Execute Emergency Action Plan (EAP)
E4	CORE	Operate antenna control systems
E4	NON-CORE	Operate Government Off-The-Shelf (GOTS) software

ELECTRONIC WARFARE SYSTEM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct Electronic Warfare Support Measures (ES) system operations
E4	CORE	Conduct fixed radar operations
E4	CORE	Conduct Identification, Friend or Foe (IFF) operations
E4	CORE	Conduct portable radar system operations
E4	CORE	Conduct Radio Direction Finding (RDF) system operations

EQUIPMENT MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Conduct sound isolation surveys
E5	NON-CORE	Correct sound isolation deficiencies
E5	CORE	Install computer components
E5	CORE	Install network components
E4	CORE	Maintain antenna systems
E4	CORE	Maintain Electronic Warfare Support Measures (ES) systems
E4	CORE	Maintain Extremely High Frequency (EHF) systems
E4	CORE	Maintain Identification, Friend or Foe (IFF) systems
E4	CORE	Maintain Information System (IS) components
E4	CORE	Maintain Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) systems
E4	CORE	Maintain periscope and imaging systems
E4	CORE	Maintain Radio Direction Finding (RDF) systems
E4	CORE	Maintain Super High Frequency (SHF) systems
E4	CORE	Maintain Ultra High Frequency (UHF) systems
E4	CORE	Maintain Very High Frequency (VHF) systems
E4	CORE	Maintain Very Low Frequency (VLF) systems
E5	CORE	Repair antenna systems

E5	CORE	Repair Electronic Warfare Support Measures (ES) systems
E5	CORE	Repair Extremely High Frequency (EHF) systems
E5	CORE	Repair Identification, Friend or Foe (IFF) systems
E5	CORE	Repair Information Systems (IS)
E5	CORE	Repair Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) systems
E5	CORE	Repair periscope and imaging systems
E5	CORE	Repair Radio Direction Finding (RDF) systems
E5	CORE	Repair Super High Frequency (SHF) systems
E5	CORE	Repair Ultra High Frequency (UHF) systems
E5	CORE	Repair Very High Frequency (VHF) systems
E5	CORE	Repair Very Low Frequency (VLF) systems
E5	CORE	Troubleshoot antenna systems
E5	CORE	Troubleshoot Electronic Warfare Support Measures (ES) systems
E5	CORE	Troubleshoot Extremely High Frequency (EHF) systems
E5	CORE	Troubleshoot Identification, Friend or Foe (IFF) systems
E5	CORE	Troubleshoot Information Systems (IS)
E5	CORE	Troubleshoot Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) systems
E5	CORE	Troubleshoot periscope and imaging systems
E5	CORE	Troubleshoot Radio Direction Finding (RDF) systems
E5	CORE	Troubleshoot Super High Frequency (SHF) systems
E5	CORE	Troubleshoot Ultra High Frequency (UHF) systems
E5	CORE	Troubleshoot Very High Frequency (VHF) systems
E5	CORE	Troubleshoot Very Low Frequency (VLF) systems

INFORMATION SYSTEM OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Configure applications software
E6	CORE	Configure file system security
E5	CORE	Configure Information System (IS) servers
E5	CORE	Configure network security tools
E5	CORE	Configure workstation software
E4	CORE	Establish Information System (IS) off-hull connectivity
E5	CORE	Interpret client software
E5	CORE	Operate backup software
E4	CORE	Operate Information Systems (IS)
E6	CORE	Supervise Information System (IS) maintenance
E6	CORE	Supervise Information System (IS) modifications
E5	NON-CORE	Test computer systems